

Intestinal defense against bacterial toxins : role of LPS binding protein and lipoproteins

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Intestinal defense against bacterial toxins; role of LPS binding protein and lipoproteins

Anita Corinne Eugenie Vreugdenhil
Maastricht, 9 mei 2003

The study presented in this thesis was performed at the Nutrition and Toxicology Research Institute Maastricht (NUTRIM), which participates in the graduate school VLAG-2 (Food Technology, Agrobiotechnology, Nutrition and Health Sciences) accredited by the Royal Netherlands Academy of Arts and Sciences.

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1. Zoals de veiligheid van een land wordt bewaakt door strategische situering van een krijgsmacht aan de landsgrenzen, wapent de darm zich tegen bacteriën door lokale productie van LBP in het darmepitheel. (dit proefschrift)
2. LBP circuleert gebonden aan VLDL en LDL en niet, zoals lang werd aangenomen, aan HDL, hetgeen overeenstemt met de sterke afname van de HDL concentratie tijdens inflammatie. (dit proefschrift)
3. De inactivatie van bacteriële toxinen door LBP-chylomicron complexen is een potentieel verdedigingsmechanisme tegen infecties geïnitieerd vanuit de darm. (dit proefschrift)
4. Anti-endotoxin treatments have many advantages over anti-inflammatory mediator therapies, in that endotoxin can be completely eliminated without potential harm to the patient, which is not true for essential elements of the host immune system (Horn et al, Clinical Infectious Diseases, 2000;31:851-8).
5. Phospholipids enhance immature intestinal functions thereby reducing the incidence of NEC in preterm infants (Carlson et al, Pediatric Research, 1998;44:491-8).
6. The fact that multiple humoral stimuli converge to maintain lipoprotein levels during infection, attests to the critical function of lipoproteins in host defense (Harris et al, Journal of Clinical Investigation 1993;91:1028-34)
7. It is necessary to define an optimum range for targeted lipoproteins and total cholesterol, below which it would be undesirable to reduce lipoproteins by pharmacological means in patients with coronary artery disease and chronic heart failure (Rauchhaus et al, The Lancet, 2000;356:930-33)
8. The developmental delays in immune functions in human newborns are compensated for by the immune system in human milk.
9. Het onttrekken van artsen en verpleegkundigen aan de arbeidsmarkt van ontwikkelingslanden geeft een geheel nieuwe betekenis aan het begrip 'Nederlandse ontwikkelingssamenwerking'.
10. Wie alleen kijkt naar de golven in de branding, ziet niet dat het vloed wordt (Prof. A. Cornelis).